

Appl. No. 10/039,331
Reply to Office Action of March 10, 2005

Docket No. RTN-139PUS

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

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1 1. (Currently Amended) A symbol expansion method comprising:

2 selecting, on a computer map display, a map portion containing one or more map
3 display symbols on a computer map display, wherein the one or more map display symbols
4 include map display symbols selected from among one or more de-cluttered map display
5 symbols and two or more cluttered map display symbols; and

6 presenting, on the computer map display, in response to the selecting, a symbol
7 expansion display having information associated with the one or more map display symbols, on
8 the computer map display, wherein the one or more map display symbols include map display
9 symbols selected from among one or more de-cluttered map display symbols, two or more
10 normal map display symbols, and two or more cluttered map display symbols, and wherein the
11 symbol expansion display is displayed concurrently with the one or more map display symbols.

1 2. (Currently Amended) The method of claim 1, wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein the selecting comprises:

4 pointing to a map display symbol with a computer pointing device.

1 3. (Currently Amended) The method of claim 1, wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein the selecting comprises:

4 selecting a map portion of the computer map display containing the one or more map
5 display symbols with the computer pointing device.

1 4. (Currently Amended) The method of claim 1, wherein the presenting comprises:

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2 relating the one or more map display symbols to one or more map symbol records
3 retained in a computer memory, each containing record components;
4 selecting one or more record components from among the one or more map symbol
5 records;
6 formatting the one or more selected record components; and
7 presenting at least one of one or more symbol expansion graphics and one or more
8 symbol expansion data associated with the selected record components in the symbol expansion
9 display, ~~concurrently with the one or more map display symbols.~~

1 5. (Previously Presented) The method of claim 4, wherein the selecting one or more record
2 components comprises:
3 selecting one or more record graphics components of the one or more map symbol
4 records.

1 6. (Previously Presented) The method of claim 4, wherein the selecting the one or more record
2 components comprises:
3 selecting record data of the one or more map symbol records.

1 7. (Previously Presented) The method of claim 6, wherein the selecting the record data
2 comprises:
3 filtering the record data of the one or more map symbol records to provide the one or
4 more symbol expansion data corresponding to a selected record data type.

1 8. (Currently Amended) The method of claim 7, wherein the filtering the record data
2 comprises:
3 selecting a record data type selected from the group consisting of a dollar asset range
4 record data type, a friendliness range record data type, a personnel size record data type, a
5 security classification record data type, a type of service record data type, and an age of symbol
6 record data type.

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1 9. (Currently Amended) The method of claim 6, wherein the selecting the record data
2 comprises:
3 filtering the record data of the one or more map symbol records to provide the one or
4 more symbol expansion data corresponding to a selected record data range.

1 10. (Previously Presented) The method of claim 6, wherein the selecting the record data
2 comprises:
3 algorithmically combining map symbol records to provide the one or more symbol
4 expansion data.

1 11. (Cancelled)

1 12. (Currently Amended) The method of claim 1[4], wherein formatting the presenting
2 comprises:
3 providing the one or more symbol expansion data presenting the symbol expansion
4 display, movable by the user on the computer maps display, and associated with the record data
5 components of the one or more map symbol records.

1 13. (Currently Amended) The method of claim 12, wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein providing the presenting the one or more
4 symbol expansion data comprises:
5 providing presenting a user selectable language for the one or more list of symbol
6 expansion data in a user selectable language.

1 14. (Currently Amended) The method of claim [4]1, wherein the formatting presenting
2 comprises:

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3 ~~providing~~ presenting a lead line from the map portion to the symbol expansion display,
4 ~~wherein where~~ the lead line moves in accordance with the position of the symbol expansion
5 display.

1 15. (Currently Amended) The method of claim 1[4], wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein formatting the presenting comprises:
4 color coding one or more of the one or more symbol expansion graphics to indicate an
5 attribute of ~~the an~~ object represented by one of the one or more map display symbols.

1 16. (Currently Amended) The method of claim 1[4], ~~wherein formatting the presenting~~
2 comprises:
3 augmenting the symbol expansion display with special identifying characters that
4 indicate when information has been omitted from the symbol expansion display.

1 17. (Currently Amended) A symbol expansion apparatus comprising:
2 a selection device to select, on a computer map display, a map portion containing one or
3 more map display symbols ~~on a computer map display, wherein the one or more map display~~
4 symbols include map display symbols selected from among one or more de-cluttered map
5 display symbols and two or more cluttered map display symbols; and
6 a presentation processor, ~~that receives information concerning the one or more map~~
7 ~~display symbols selected by said selecting device and which presents, on the computer map~~
8 display, in response to selecting the map portion, a symbol expansion display related to the map
9 display region having information associated with the one or more map display symbols, on the
10 ~~computer map display, wherein the one or more map display symbols include map display~~
11 ~~symbols selected from among one or more de-cluttered map display symbols two or more~~
12 ~~normal map display symbols, and two or more cluttered map display symbols, and wherein the~~
13 symbol expansion display is displayed concurrently with the one or more map display symbols.

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1 18. (Currently Amended) The apparatus of claim 17, wherein the presentation processor
2 comprises:
3 a computer memory having one or more map symbol records stored therein;
4 a relation processor [] which relates the one or more map display symbols to the one or
5 more map symbol records retained in the computer memory;
6 a selection device for selecting one or more record components from among the one or
7 more map symbol records; and
8 a display processor [] which receives and formats each of the one or more selected
9 record components for presenting at least one of one or more symbol expansion graphics and
10 one or more symbol expansion data in the symbol expansion display ~~in~~
11 ~~combination~~ concurrently with the one or more map display symbols.

1 19. (Cancelled)

1 20. (Currently Amended) The apparatus of claim ~~18~~ 17, wherein the display presentation
2 processor further comprises:
3 means for providing the ~~one or more~~ symbol expansion ~~data~~ display, movable by the
4 user on the computer map display, ~~and associated with the record data components of the one~~
5 ~~or more map symbol records.~~

1 21. (Currently Amended) The apparatus of Claims ~~18-17~~, wherein the information presented
2 in the symbol expansion display includes at least one of one or more symbol expansion
3 graphics and one or more symbol expansion data, and wherein the selection device is adapted
4 to select a map portion containing the one or more map display symbols.

1 22. (Previously Presented) The method of claim 1, wherein the computer map display is
2 displayed at a first scale and the symbol expansion display is displayed concurrently with the
3 computer map display at the first scale.

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1 23. (Currently Amended) The method of claim [4]1, wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein each-at least one of the one or more symbol
4 expansion graphics is associated with a lower level of hierarchy of one of the one or more map
5 display symbols.

1 24. (Currently Amended) The method of claim [4]1, wherein the information presented in the
2 symbol expansion display includes at least one of one or more symbol expansion graphics and
3 one or more symbol expansion data, and wherein each-at least one of the one or more symbol
4 expansion data is associated with a lower level of hierarchy of one of the one or more map
5 display symbols.

1 25. (Currently Amended) The apparatus of claim 17, wherein the computer map display is
2 displayed at a first scale and the symbol expansion display is displayed in
3 ~~combination~~concurrently with the computer map display at the first scale.

1 26. (Currently Amended) The apparatus of claim ~~17~~17, wherein the information presented in
2 the symbol expansion display includes at least one of one or more symbol expansion graphics
3 and one or more symbol expansion data, and wherein each-at least one of the one or more
4 symbol expansion graphics is associated with a lower level of hierarchy of one of the one or
5 more map display symbols.

1 27. (Currently Amended) The apparatus of claim ~~17~~17, wherein the information presented in
2 the symbol expansion display includes at least one of one or more symbol expansion graphics
3 and one or more symbol expansion data, and wherein each-at least one of the one or more
4 symbol expansion data is associated with a lower level of hierarchy of one of the one or more
5 map display symbols.

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1 28. (Currently Amended) The method of claim 1, wherein the one or more map display
2 symbols ~~include~~ consist of one or more de-cluttered map display symbols.

1 29. (Cancelled)

1 30. (Currently Amended) The method of claim 1, wherein the one or more map display
2 symbols consist of ~~include~~ two or more cluttered map display symbols.

1 31. (Currently Amended) The apparatus of claim 17, wherein the one or more map display
2 symbols consist of ~~include~~ one or more de-cluttered map display symbols.

1 32. (Cancelled)

1 33. (Currently Amended) The apparatus of claim 17, wherein the one or more map display
2 symbols consist of ~~include~~ two or more cluttered map display symbols.

1 34. (Currently Amended) A symbol expansion method comprising:
2 selecting a map portion containing one or more map display symbols on a computer
3 map display; and
4 presenting a symbol expansion display having information associated with the one or
5 more map display symbols on the computer map display, wherein the symbol expansion
6 display is displayed concurrently with the one or more map display symbols, wherein the
7 presenting comprises:
8 relating the one or more map display symbols to one or more map
9 symbol records retained in a computer memory, each containing record
10 components;
11 selecting one or more record components from among the one or more
12 map symbol records, wherein the selecting the one or more record components
13 comprises selecting record data of the one or more map symbol records, wherein

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14 the selecting the record data comprises filtering the record data of the one or
15 more map symbol records to provide the one or more symbol expansion data
16 corresponding to a selected record data type, wherein the filtering the record
17 data comprises selecting a record data type selected from the a group consisting
18 of a dollar asset range record data type, a friendliness range record data type, a
19 personnel size record data type, a security classification record data type, a type
20 of service record data type, and an age of symbol record data type;
21 formatting the one or more selected record components; and
22 presenting at least one of one or more symbol expansion graphics and
23 one or more symbol expansion data associated with the selected record
24 components in the symbol expansion display concurrently with the one or more
25 map display symbols.

1 35. (Previously Presented) A symbol expansion method comprising:
2 selecting a map portion containing one or more map display symbols on a computer
3 map display; and
4 presenting a symbol expansion display having information associated with the one or
5 more map display symbols on the computer map display, wherein the symbol expansion
6 display is displayed concurrently with the one or more map display symbols, wherein the
7 presenting comprises:
8 relating the one or more map display symbols to one or more map
9 symbol records retained in a computer memory, each containing record
10 components;
11 selecting one or more record components from among the one or more
12 map symbol records;
13 formatting the one or more selected record components, wherein
14 formatting comprises providing the one or more symbol expansion data,
15 movable by the user on the computer maps display, and associated with the
16 record data components of the one or more map symbol records, wherein the

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17 providing the one or more symbol expansion data comprises providing a user
18 selectable language for the list of symbol expansion data; and
19 presenting at least one of one or more symbol expansion graphics and
20 one or more symbol expansion data associated with the selected record
21 components in the symbol expansion display concurrently with the one or more
22 map display symbols.

1 36. (Previously Presented) A symbol expansion method comprising:
2 selecting a map portion containing one or more map display symbols on a computer
3 map display; and
4 presenting a symbol expansion display having information associated with the one or
5 more map display symbols on the computer map display, wherein the symbol expansion
6 display is displayed concurrently with the one or more map display symbols, wherein the
7 presenting comprises:
8 relating the one or more map display symbols to one or more map
9 symbol records retained in a computer memory, each containing record
10 components;
11 selecting one or more record components from among the one or more
12 map symbol records;
13 formatting the one or more selected record components, wherein the
14 formatting comprises color coding one or more of the one or more symbol
15 expansion graphics to indicate an attribute of the object represented by one of
16 the one or more map display symbols; and
17 presenting at least one of one or more symbol expansion graphics and
18 one or more symbol expansion data associated with the selected record
19 components in the symbol expansion display concurrently with the one or more
20 map display symbols.

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- 1 37. (Previously Presented) A symbol expansion method comprising:
2 selecting a map portion containing one or more map display symbols on a computer
3 map display; and
4 presenting a symbol expansion display having information associated with the one or
5 more map display symbols on the computer map display, wherein the symbol expansion
6 display is displayed concurrently with the one or more map display symbols, wherein the
7 presenting comprises:
8 relating the one or more map display symbols to one or more map
9 symbol records retained in a computer memory, each containing record
10 components;
11 selecting one or more record components from among the one or more
12 map symbol records;
13 formatting the one or more selected record components, wherein the
14 formatting comprises augmenting the symbol expansion display with special
15 identifying characters that indicate when information has been omitted from the
16 symbol expansion display; and
17 presenting at least one of one or more symbol expansion graphics and
18 one or more symbol expansion data associated with the selected record
19 components in the symbol expansion display concurrently with the one or more
20 map display symbols